

## HIGH-EFFICIENCY MICROARRAY PRINTING DEVICE

### ABSTRACT OF THE DISCLOSURE

[0101] This invention provides improved components (e.g. array "pins", print head, substrate platen, print head platen, and the like) for microarray printing devices as well as 5 microarray printing devices incorporating such components. In one embodiment, this invention provides a microarray print head comprising a plurality of glass or quartz spotting capillaries disposed in a support that maintains a fixed spacing between the spotting capillaries and that permits the spotting capillaries to move in a direction parallel to the long axis of the capillaries.

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